

WHAT IS CLAIMED IS:

1. A method of increasing scanning resolution of a scanner through controlling its driving system, comprising the steps of:

providing shift gate clock pulses to a charge-coupled device such that one shift
5 gate clock pulse period corresponds to an exposure cycle for the charge-coupled device;
and

providing motor pulses to a motor such that one motor pulse period corresponds to a plurality of exposure cycles for the charge-coupled device.

2. The method of claim 1, wherein the motor includes a stepper motor.

10 3. A method of increasing scanning resolution of a scanner through controlling its driving system, comprising the steps of:

providing motor pulse signals to a driving motor of the scanner;

providing shift gate clock pulse signals to a charge-coupled device of the
scanner; and

15 adjusting a timing relationship between the motor pulse and the shift gate clock pulse such that one motor pulse cycle corresponds to a plurality of shift gate clock pulse cycles.

4. The method of claim 3, wherein one shift gate clock cycle corresponds to an exposure cycle for the charge-coupled device.

20 5. The method of claim 3, wherein the motor includes a stepper motor.